

**IN THE CLAIMS:**

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please amend claims 1 and 11 in accordance with the following:

1. (CURRENTLY AMENDED) A microcontroller operating in synchronization with a clock, comprising:

an arithmetic unit operating in synchronization with the clock;

an internal resource connected to the arithmetic unit via a bus, and having at least a bus interface and an internal circuit both of which operate in synchronization with the clock; and

a system resource prescaler which generates, from the clock, an operation permission signal denoting an operation permission state in m cycles out of n cycles of the clock (m =< n), and supplies the operation permission signal to the internal circuit of the internal resource,

wherein the internal circuit of the internal resource operates in synchronization with the clock when the operation permission signal denotes the operation permission state and the bus interface of the internal resource performs a bus management with the arithmetic unit in synchronization with the clock regardless of the state of the operation permission signal.

2. (CANCELLED)

3. (ORIGINAL) The microcontroller according to claim 1,

wherein the internal resource includes a communication macro controlling communication with outside, and an internal circuit of the communication macro includes a counter which generates a communication control clock.

4. (ORIGINAL) The microcontroller according to claim 1,

wherein the internal resource comprises a pulse generation macro generating a control pulse, and an internal circuit of the pulse generation macro comprises a counter controlling a generation timing of the control pulse.

5. (ORIGINAL) The microcontroller according to claim 1,  
wherein the system resource prescaler comprises a register storing the values m and n,  
and the register can be set alterably.

6. (ORIGINAL) The microcontroller according to claim 5,  
wherein the system resource prescaler comprises a settable operation control register  
indicative of either a first operation state in which the operation permission signal is set  
constantly to the operation permission state or a second operation state in which the operation  
permission signal is set to the operation permission state in the m cycles out of the n cycles.

7. (ORIGINAL) The microcontroller according to claim 1,  
wherein the system resource prescaler dispersively allocates the m cycles throughout the  
n cycles.

8. (currently amended) The microcontroller operating in synchronization with a  
clock, comprising:

an arithmetic unit operating in synchronization with the clock;  
an internal resource being connected to the arithmetic unit via a bus, and having at least  
a bus interface and an internal circuit both of which operates in synchronization with the clock;  
and

a system resource prescaler which generates, from the clock, an operation permission  
signal denoting an operation permission state in m cycles out of n cycles of the clock ( $m \leq n$ ),  
and supplies the operation permission signal to the ~~international~~internal circuit of the internal  
resource,

wherein the internal circuit operates in synchronization with the clock when the operation  
permission signal denotes the operation permission state,

wherein the system resource prescaler comprises a preceding-stage prescaler and a  
succeeding-stage prescaler which generates a succeeding-stage operation permission signal  
using a preceding-stage operation permission signal which is generated and supplied from the  
preceding-stage prescaler, and the succeeding-stage operation permission signal is supplied to  
the internal circuit of the internal resource.

9. (ORIGINAL) The microcontroller according to claim 8,  
wherein the preceding-stage prescaler and the succeeding-stage prescaler respectively  
comprise registers storing the values m and n, and the registers can be set alterably.

10. (ORIGINAL) The microcontroller according to claim 9,  
wherein the succeeding-stage prescaler further comprises an operation control register  
in which can be set any one of a first operation state enabling the succeeding-stage operation  
permission signal to be set constantly to an operation permission state, a second operation state  
enabling the succeeding-stage operation permission signal to be set to the operation permission  
state in the m cycles out of the n cycles, and a third state generating the succeeding-stage  
operation permission signal irrespective of the states of the preceding-stage operation  
permission signal.

11. (CURRENTLY AMENDED) A microcontroller operating in synchronization with a  
clock, comprising:

an arithmetic unit operating in synchronization with the clock;  
an internal resource being connected to the arithmetic unit via a bus, and having at least  
a bus interface and an internal circuit both of which operate in synchronization with the clock;  
and

a system resource prescaler which generates, from the clock, an operation permission  
signal having a lower frequency than the clock, and supplies the operation permission signal to  
the internal circuit of the internal resource,

wherein the internal circuit of the internal resource operates in synchronization with the  
clock when the operation permission signal denotes the operation permission state and the bus  
interface of the internal resource performs a bus management with the arithmetic unit in  
synchronization with the clock regardless of the state of the operation permission signal.

12. (ORIGINAL) The microcontroller according to claim 11,  
wherein the operation permission signal is controlled to be set to the operation  
permission state on a cycle-by-cycle basis of the clock.

13. (ORIGINAL) The microcontroller according to claim 12,  
wherein the operation permission signal is set to the operation permission state in m  
cycles out of n cycles of the clock, and the values n and m can be set alterably.